

Comparisons of Job Characteristics

Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)

Associated Occupation: Sheet Metal Workers (47-2211)

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 84

Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)

Associated Occupation: Sheet Metal Workers (47-2211)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	17.4	20.1	>	Current knowledge level is likely sufficient
Building and Construction	4.0	16.5	12.5	<<	Extensive education and/or training may be required
Design	5.2	14.9	10.3	<<	Extensive education and/or training may be required
Mathematics	9.2	14.8	12.3	<	Expanded education and/or training may be required
Engineering and Technology	5.7	13.5	11.1	<	Expanded education and/or training may be required
Administration and Management	8.4	11.7	9.6	<	Expanded education and/or training may be required
Production and Processing	6.0	11.0	7.2	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 44

Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)

Associated Occupation: Sheet Metal Workers (47-2211)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mathematics	6.2	9.4	7.6	<	A higher skill level may be required
Equipment Maintenance	3.5	7.4	12.3	>>	Skill level is likely more than sufficient
Repairing	3.4	6.9	13.5	>>	Skill level is likely more than sufficient
Equipment Selection	3.3	6.4	9.4	>>	Skill level is likely more than sufficient

Installation	1.7	4.4	12.6	>>	Skill level is likely more than sufficient
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The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 82				
Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021) Associated Occupation: Sheet Metal Workers (47-2211)						
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation		
Visualization	7.5	12.3	12.4	0	Current ability level may be sufficient	
Selective Attention	8.7	10.6	8.8	<	Some improvement in abilities may be required	
Static Strength	5.0	10.0	10.0	0	Current ability level may be sufficient	
Depth Perception	5.3	9.5	8.0	<	Some improvement in abilities may be required	
Auditory Attention	5.9	9.1	8.4	0	Current ability level may be sufficient	
Gross Body Equilibrium	3.2	7.3	7.1	0	Current ability level may be sufficient	
Speed of Limb Movement	3.2	7.1	5.9	<	Some improvement in abilities may be required	

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 92
Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021) Associated Occupation: Sheet Metal Workers (47-2211)		
Work Activities	Exclusivity of Activity	
Adhere to safety procedures	12	
Determine material or tool requirements	72	
Determine project methods and procedures	76	
Fabricate ducting	95	
Fabricate sheet metal parts or items	80	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Identify properties of metals for repair or fabrication activities	71	
Install sheet metal assemblies in supportive framework	95	
Lay out machining, welding or precision assembly projects	63	
Move or fit heavy objects	8	
Operate sheet metal fabrication machines	87	
Perform safety inspections in industrial, manufacturing or repair setting	32	
Position, align, or level machines, equipment, or structures	74	
Read blueprints	10	
Read technical drawings	7	

Solder metal parts or components together	73
Understand technical operating, service or repair manuals	6
Use acetylene welding/cutting torch	54
Use arc welding equipment	62
Use combination welding procedures	68
Use hand or power tools	2
Use soldering equipment	44
Weld together metal parts, components, or structures	54

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 88

Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)
Associated Occupation: Sheet Metal Workers (47-2211)

Tools and Technologies	Exclusivity
Bandsaws and accessories	26
Computer printers	2
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Cutting tools	18
Data management and query software	1
Dispensing tools	6
Drafting supplies	9
Electrical measuring and testing equipment	7
Face and head protection	7
Fluid mechanics equipment	11
Forming tools	2
Gas analyzers and monitors	10
Holding and clamping tools	3
Holding and positioning and guiding systems and devices	23
Humidity and moisture measuring instruments	15
Indicating and recording instruments	2
Industrial trucks	10
Industry specific software	1
Ladders and scaffolding	6
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Liquid and gas flow measuring and observing instruments	15
Machine tools	7
Marking tools	11
Measuring and layout tools	3
Metal bending and forming machinery	17

Non destructive examination equipment	13
Power tools	2
Pressure measuring and control instruments	10
Rough and finishing tools	5
Safety apparel	4
Soldering and brazing and welding machinery and supplies	6
Special tooling fixtures	16
Temperature and heat measuring instruments	6
Tool attachments and accessories	12
Transportation related equipment and instruments	29
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.